

Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1-3. (Canceled)

4. (Currently amended) A display device comprising:

a plurality of pixels, each comprising a light emitting element, the light emitting element comprising an anode, a cathode and an organic compound layer provided therebetween; and a source signal line driver circuit, wherein

said source signal line driver circuit comprises a switching circuit for switching a polarity of an output signal, [[and]]

a polarity of a digital video signal input to said switching circuit is inverted by means of a shift signal to be input into said switching circuit and a resultant digital signal is then input into said plurality of pixels,

said switching circuit comprises an inverter, a first analog switch, and a second analog switch,

said digital video signal input into said switching circuit is input into an input terminal of said first analog switch through said inverter,

said digital video signal input into said switching circuit is input into an input terminal of said second analog switch,

said shift signal is input into a first control input terminal of said first analog switch and a second control input terminal of said second analog switch,

a signal obtained by inverting a polarity of said shift signal is input into a first control input terminal of said second analog switch and a second control input terminal of said first analog switch, and

signals output from output terminals of said first analog switch and said second analog switch are output from said switching circuit.

5-6. (Canceled)

7. (Original) A display device according to claim 4, wherein said display device is a light emitting device.

8. (Original) A display device according to claim 4, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, an image reproduction apparatus, a head mount display, a portable telephone, a personal computer, and a portable information terminal.

9. (Currently amended) A display device comprising:
a plurality of pixels, each comprising a light emitting element, the light emitting element comprising an anode, a cathode and an organic compound layer provided therebetween; and
a source signal line driver circuit,
wherein:

said source signal line driver circuit comprises a shift register, one or more latches, and a switching circuit, [[and]]

a polarity of a digital video signal input from said one or more latches into said switching circuit is inverted by means of a shift signal to be input into said switching circuit and a resultant digital signal is then input into the plurality of pixels,

said switching circuit comprises an inverter, a first analog switch, and a second analog switch,

said digital video signal input into said switching circuit is input into an input terminal of said first analog switch through said inverter,

said digital video signal input into said switching circuit is input into an input terminal of said second analog switch,

said shift signal is input into a first control input terminal of said first analog switch and a second control input terminal of said second analog switch,

a signal obtained by inverting a polarity of said shift signal is input into a first control input terminal of said second analog switch and a second control input terminal of said first analog switch, and

signals output from output terminals of said first analog switch and said second analog switch are output from said switching circuit.

10-11. (Canceled)

12. (Original) A display device according to claim 9, wherein said display device is a light emitting device.

13. (Original) A display device according to claim 9, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, an image reproduction apparatus, a head mount display, a portable telephone, a personal computer, and a portable information terminal.

14-45. (Canceled)

46. (Currently amended) A display device comprising:

a plurality of pixels, each comprising a light emitting element, the light emitting element comprising an anode, a cathode and an organic compound layer provided therebetween; and

a source signal line driver circuit,

wherein:

said source signal line driver circuit comprises a shift register, and a switching circuit,

[[and]]

a polarity of a digital video signal input into said switching circuit is inverted by means of a shift signal to be input into said switching circuit and a resultant digital signal is then input into the plurality of pixels,

said switching circuit comprises an inverter, a first analog switch, and a second analog switch,

said digital video signal input into said switching circuit is input into an input terminal of said first analog switch through said inverter,

said digital video signal input into said switching circuit is input into an input terminal of said second analog switch,

said shift signal is input into a first control input terminal of said first analog switch and a second control input terminal of said second analog switch,

a signal obtained by inverting a polarity of said shift signal is input into a first control input terminal of said second analog switch and a second control input terminal of said first analog switch, and

signals output from output terminals of said first analog switch and said second analog switch are output from said switching circuit.

47-48. (Canceled)

49. (Previously Presented) A display device according to claim 46, wherein said display device is a light emitting device.

50. (Previously Presented) A display device according to claim 46, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, an image reproduction apparatus, a head mount display, a portable telephone, a personal computer, and a portable information terminal.

51. (Currently amended) A display device comprising:
a plurality of pixels, each comprising a light emitting element, the light emitting element comprising an anode, a cathode and an organic compound layer provided therebetween, and
a source signal line driver circuit,
wherein;

said source signal line driver circuit comprises one or more latches, and a switching circuit, [[and]]

a polarity of a digital video signal input from said one or more latches into said switching circuit is inverted by means of a shift signal to be input into said switching circuit and a resultant digital signal is then input into the plurality of pixels,

said switching circuit comprises an inverter, a first analog switch, and a second analog switch,

said digital video signal input into said switching circuit is input into an input terminal of said first analog switch through said inverter,

said digital video signal input into said switching circuit is input into an input terminal of said second analog switch,

said shift signal is input into a first control input terminal of said first analog switch and a second control input terminal of said second analog switch,

a signal obtained by inverting a polarity of said shift signal is input into a first control input terminal of said second analog switch and a second control input terminal of said first analog switch, and

signals output from output terminals of said first analog switch and said second analog switch are output from said switching circuit.

52-53. (Canceled)

54. (Previously Presented) A display device according to claim 51, wherein said display device is a light emitting device.

55. (Previously Presented) A display device according to claim 51, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, an image reproduction apparatus, a head mount display, a portable telephone, a personal computer, and a portable information terminal.

56. (Previously Presented) A display device according to claim 4, wherein said polarity of said video signal is inverted by means of said shift signal when an average of a time period during which all of said light emitting elements emit light in one frame period becomes longer than a half of a time period during which the light emitting elements emit light in one frame period in the case where a totally white image is to be displayed.

57. (Previously Presented) A display device according to claim 9, wherein said polarity of said video signal is inverted by means of said shift signal when an average of a time period during which all of said light emitting elements emit light in one frame period becomes longer than a half of a time period during which the light emitting elements emit light in one frame period in the case where a totally white image is to be displayed.

58. (Previously Presented) A display device according to claim 46, wherein said polarity of said video signal is inverted by means of said shift signal when an average of a time period during which all of said light emitting elements emit light in one frame period becomes longer than a half of a time period during which the light emitting elements emit light in one frame period in the case where a totally white image is to be displayed.

59. (Previously Presented) A display device according to claim 51, wherein said polarity of said video signal is inverted by means of said shift signal when an average of a time period during which all of said light emitting elements emit light in one frame period becomes longer than a half of a time period during which the light emitting elements emit light in one frame period in the case where a totally white image is to be displayed.

60. (New) A display device comprising:

a plurality of pixels, each comprising a light emitting element, the light emitting element comprising an anode, a cathode and an organic compound layer provided therebetween; and
a source signal line driver circuit,
wherein:

said source signal line driver circuit comprises a switching circuit for switching a polarity of an output signal,

a polarity of a digital video signal input to said switching circuit is inverted by means of a shift signal to be input into said switching circuit and a resultant digital signal is then input into said plurality of pixels,

said switching circuit comprises an inverter, a first NAND, a second NAND, and a NOR, said first NAND is supplied with said digital video signal through said inverter and said shift signal,

said second NAND is supplied with said digital video signal and a signal obtained by inverting a polarity of said shift signal,

a signal output from said first NAND and a signal output from said second NAND are input into said NOR, and

a signal output from said NOR is output from said switching circuit.

61. (New) A display device according to claim 60, wherein said display device is a light emitting device.

62. (New) A display device according to claim 60, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, an image reproduction apparatus, a head mount display, a portable telephone, a personal computer, and a portable information terminal.

63. (New) A display device according to claim 60, wherein said polarity of said video signal is inverted by means of said shift signal when an average of a time period during which all of said light emitting elements emit light in one frame period becomes longer than a half of a time period during which the light emitting elements emit light in one frame period in the case where a totally white image is to be displayed.

64. (New) A display device comprising:

a plurality of pixels, each comprising a light emitting element, the light emitting element comprising an anode, a cathode and an organic compound layer provided therebetween; and

a source signal line driver circuit,

wherein:

said source signal line driver circuit comprises a shift register, one or more latches, and a switching circuit,

a polarity of a digital video signal input from said one or more latches into said switching circuit is inverted by means of a shift signal to be input into said switching circuit and a resultant digital signal is then input into the plurality of pixels,

said switching circuit comprises an inverter, a first NAND, a second NAND, and a NOR,

said first NAND is supplied with said digital video signal through said inverter and said shift signal,

said second NAND is supplied with said digital video signal and a signal obtained by inverting a polarity of said shift signal,

a signal output from said first NAND and a signal output from said second NAND are input into said NOR, and

a signal output from said NOR is output from said switching circuit.

65. (New) A display device according to claim 64, wherein said display device is a light emitting device.

66. (New) A display device according to claim 64, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, an image reproduction apparatus, a head mount display, a portable telephone, a personal computer, and a portable information terminal.

67. (New) A display device according to claim 64, wherein said polarity of said video signal is inverted by means of said shift signal when an average of a time period during which all of said light emitting elements emit light in one frame period becomes longer than a half of a

time period during which the light emitting elements emit light in one frame period in the case where a totally white image is to be displayed.

68. (New) A display device comprising:

a plurality of pixels, each comprising a light emitting element, the light emitting element comprising an anode, a cathode and an organic compound layer provided therebetween; and
a source signal line driver circuit,
wherein:

said source signal line driver circuit comprises a shift register, and a switching circuit,
a polarity of a digital video signal input into said switching circuit is inverted by means of a shift signal to be input into said switching circuit and a resultant digital signal is then input into the plurality of pixels,

said switching circuit comprises an inverter, a first NAND, a second NAND, and a NOR,
said first NAND is supplied with said digital video signal through said inverter and said shift signal,

said second NAND is supplied with said digital video signal and a signal obtained by inverting a polarity of said shift signal,

a signal output from said first NAND and a signal output from said second NAND are input into said NOR, and

a signal output from said NOR is output from said switching circuit.

69. (New) A display device according to claim 68, wherein said display device is a light emitting device.

70. (New) A display device according to claim 68, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, an image reproduction apparatus, a head mount display, a portable telephone, a personal computer, and a portable information terminal.

71. (New) A display device according to claim 68, wherein said polarity of said video signal is inverted by means of said shift signal when an average of a time period during which all of said light emitting elements emit light in one frame period becomes longer than a half of a time period during which the light emitting elements emit light in one frame period in the case where a totally white image is to be displayed.

72. (New) A display device comprising:
a plurality of pixels, each comprising a light emitting element, the light emitting element comprising an anode, a cathode and an organic compound layer provided therebetween; and
a source signal line driver circuit,
wherein:
said source signal line driver circuit comprises one or more latches, and a switching circuit,
a polarity of a digital video signal input from said one or more latches into said switching circuit is inverted by means of a shift signal to be input into said switching circuit and a resultant digital signal is then input into the plurality of pixels,
said switching circuit comprises an inverter, a first NAND, a second NAND, and a NOR,
said first NAND is supplied with said digital video signal through said inverter and said shift signal,
said second NAND is supplied with said digital video signal and a signal obtained by inverting a polarity of said shift signal,
a signal output from said first NAND and a signal output from said second NAND are input into said NOR, and
a signal output from said NOR is output from said switching circuit.

73. (New) A display device according to claim 72, wherein said display device is a light emitting device.

74. (New) A display device according to claim 72, wherein said display device is incorporated in at least one selected from the group consisting of a video camera, an image

reproduction apparatus, a head mount display, a portable telephone, a personal computer, and a portable information terminal.

75. (New) A display device according to claim 72, wherein said polarity of said video signal is inverted by means of said shift signal when an average of a time period during which all of said light emitting elements emit light in one frame period becomes longer than a half of a time period during which the light emitting elements emit light in one frame period in the case where a totally white image is to be displayed.